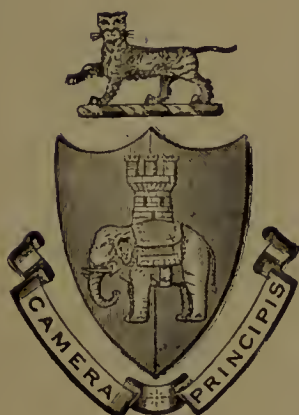




AVENUE HOUSE RESIDENTIAL NURSERY, Stretton-on-Dunsmore.

CITY OF COVENTRY.



ANNUAL HEALTH REPORT

FOR THE YEAR 1944

BY

THE MEDICAL OFFICER OF HEALTH

(A. MASSEY, C.B.E., M.D., D.P.H., D.P.A.)

Vital Statistics for the year 1944.

	Based on Registrar-General's Mid-year Estimate of Population (222,210)	Based on Departmental Mid-year Estimate of Population. (240,000)
Birth Rate	24.5	22.8
Marriage Rate	16.3	15.1
Death Rate	9.7	9.0
Death Rate from Respiratory Diseases ..	0.98	0.91
" " " Pulmonary Tuberculosis	0.64	0.59
" " " Non-pulmonary Tuberculosis..	0.09	0.08
" " " Infectious Diseases ..	0.27	0.24
" " " Puerperal Causes ..	0.01	0.01
" " " Cancer.. ..	1.57	1.45

Infantile Mortality Rate 48.4 per 1,000 births.

Maternal Mortality Rate 2.74 " " "

CITY OF COVENTRY

1944 ANNUAL REPORT

OF THE
MEDICAL OFFICER OF HEALTH.

To the Right Worshipful the Mayor, Aldermen
and Councillors of the City of Coventry.

MR. MAYOR, LADIES AND GENTLEMEN,

I have the honour to present my Annual Report on the state of the public health in the City of Coventry during 1944. It is again a war-time report in abbreviated form. It refers to a year during which total war was still in progress. But it is written at a time when victory and peace in Europe have been achieved. It is thus possible in a preliminary way to mention certain local facts and figures relating to the years 1939-1944 which previously were not for publication.

It is certain that the civil medical services and the public health services at home played a part in winning the war in Europe. They made a major contribution to civilian morale, and by keeping the people fit and by restoring the injured they helped to maintain industrial potential.

Coventry had a full share in events on the home front. In regard to health there were many menacing factors—the heavy air attacks of 1940 and 1941, shelter life, the strain of concentrated effort in the munition factories, large-scale immigration of industrial workers, and domestic overcrowding—to mention some. Nevertheless the health of the city has been maintained at a satisfactory level during the war years, and 1944 was no exception.

Vital Statistics.

Population: The city population fluctuated widely in 1940 and 1941 on account of the appreciable exodus after each major air attack and a return flow during each period of respite. After the cessation in August 1941 of enemy raiding locally, however, the population increased progressively due to the influx of persons to expanding war industry. More recently there has been a substantial return of those residents—notably children—previously

evacuated. More recently still there have been some departures of industrial workers consequent upon the first reductions in war industry following the end of the war in Europe.

For 1944, the Registrar General's mid-year estimate of population for the city was 222,210. The local estimate was 240,000. There has not been a Census, of course, since 1931. There have been many variations since then. The general trend is again an upward one.

Birth Rate.

The City birth rate continues to rise. For 1944 it was 24.5 as compared with 22.7 in the previous year and 16.5 in the last pre-war year. The 1944 birth rate for the country as a whole was 17.6. It is interesting to note that, for England and Wales, there has been a 25 per cent. increase in the birth rate during this war, as compared with a 20 per cent. decrease during the war of 1914-1918. There is much material here for the sociologist. In Coventry the present war-time increase in the birth rate is almost 50 per cent., as compared with 25 per cent. decrease during the war years 1914-18. It is well to bear in mind, however, that the recent increase has merely made up the fall experienced between the wars. In other words, the actual birth rate has, so far, merely restored itself to what it was after the last war in 1918. But the present trend is still upwards, whereas in 1918 it was in the opposite direction.

Infant Mortality Rate.

The infant mortality rate locally in 1944 was 48.4 per 1,000 births, as compared with 49.9 the previous year. The 1944 rate for the country as a whole was 46.0. Having regard to adverse war-time social factors, the local figure is not unfavourable. But there is certainly no room for complacency.

General Death Rate.

Based on the Registrar-General's mid-year estimate of population, the city death rate last year was 9.7, as against 10.3 the previous year and a figure of 11.6 for England and Wales.

Housing.

From late 1942 onwards, the local housing position has become more and more difficult. This is inevitable having regard to the increasing population, the cessation of house-building in war-time and the wide demolition of dwellings through enemy air attack. In the latter connection, if there is any redeeming feature, it is that not a small proportion of the lost houses were scheduled before the war as unfit. The magnitude of future slum clearance is less, but the immediate problem of housing space is greater.

In some parts of the city there is, of course, a degree of overcrowding which would not be tolerated by normal standards. The unhappy consequences have been social rather than epidemiological.

The local problem of housing accommodation was helped a lot, at the height of the city's industrial war effort, by the provision by the Government of fifteen large workers' hostels—each a village in itself. The hostels perforce provided only for the immigrant workers themselves and not for their families. There has been much discussion as to the future use of the hostels now that their original function is fast receding. Adaptation for emergency housing is an obvious consideration, although clearly there are structural difficulties in converting to family dwellings. Meanwhile certain of the vacated hostels have already been put to alternative use on institutional lines. One, for example, has been utilized during the current year to accommodate 500 refugee children from the Netherlands.

Frequent appeals reach the department requesting on health grounds some priority in the allotment of housing accommodation. The Housing Committee give careful consideration to all representations—especially in regard to tuberculosis cases. But until new houses are provided in quantity, the position will remain desperate. Most towns—above all those that have suffered “blitzing”—must be in similar case. Housing is indeed “priority number one” from considerations alike of health and social adjustment.

All the time the sanitary inspectors are doing their utmost in the matter of the day to day prevention or removal of conditions in or about dwellings which are deemed to be prejudicial to health. It is valuable if uphill work.

Infectious Diseases.

The beginning of the year under review saw the quick termination of the 1943-1944 influenza outbreak, of which an account was given in my 1943 Report. There was no recurrence during the winter of 1944-45. The comparative freedom from epidemic influenza during the war years is remarkable.

In regard to the notifiable infectious diseases, the notifications during 1944 included the following :—Diphtheria, 206 (103; 212); scarlet fever, 356 (610; 406); measles, 2,707 (2,223); whooping-cough, 457 (372); acute primary pneumonia, 146 (206; 290); puerperal pyrexia, 33 (36; 54); typhoid and paratyphoid fever, 0 (2; 19); and cerebro-spinal meningitis, 27 (18; 36). The comparative figures in brackets are those for 1943 and for the last complete peace-time year, 1938, in that order. In the last-mentioned year measles and whooping-cough were not notifiable.

In regard to immunisation against diphtheria, 4,325 children were protected during the year as compared with 4,872 in 1943. It is estimated that 87 per cent. of all schoolchildren and 49 per cent. of all pre-school children in the city are at present immunised. After the age of nine or ten months, it can be said that the younger the child when inoculated against diphtheria the better. There is still much leeway to be made up in regard to the younger age groups of children, and parents should not neglect their duty in this important matter.

Tuberculosis—Sanatorium Accommodation.

The increase in tuberculosis has provided one of the few shadows on the war-time health picture. During 1944, 356 cases of pulmonary and 46 cases of non-pulmonary tuberculosis were notified or re-notified in the city. In 1943 the figures were 395 and 70 respectively, and in 1938 (the last pre-war year) 231 and 67. Fuller statistics are given on a later page.

The increased incidence—appreciable but not alarming—has been due in the main to the strain of war work. The limitations placed upon ventilation of home and workplace by black-out requirements were another possible factor. The war-time dietary can be exonerated.

There is a serious shortage of sanatorium beds in the area of the Warwickshire and Coventry Joint Committee for Tuberculosis. This matter, by request of the Joint Committee, was the subject of a special report during the year under review by the medical officers concerned. It is suggested that the Joint Committee should aim at providing a total of 600 beds (300 in specialised sanatorium accommodation and 300 in simpler sanatorium buildings) as against the 239 available at present. In arriving at this recommendation the following considerations were carefully weighed, viz. :—the population of the joint area, the present trends in the incidence of tuberculosis, the need for a greater provision of beds for advanced cases, and the likely future additional demand for beds for new cases revealed by mass radiography.

The problem was under active discussion at the year-end. Among the interim measures under consideration is the allocation for advanced tuberculosis cases of a pavilion at the City Isolation Hospital. Even this small contribution is held up owing to lack of the necessary additional nursing staff. It is evident in fact that shortage of nursing staff is likely to be the greatest obstacle to future developments. Emergency accommodation may well become available, for example, in certain relinquished U.S.A. Army hospitals in the area. The key to the situation is staff. The position is serious and a solution must be found.

T.B. Allowances.

The number of approved applications received during the year by the Joint Committee was 16, of which 14 were eligible and were granted. While appreciating that the primary object of the allowances scheme was to make some compensation for loss of earnings during treatment (and in this way to encourage recourse to early treatment), there is concern locally that the allowances are not available in respect of chronic sufferers. Representations in this connection were made by the Joint Committee to the Ministry of Health during the year.

Venereal Diseases.

Venereal diseases made another blot on the war-time health record. The situation has been well in hand, however, in that the local treatment facilities have been sufficient and the anti-V.D. propaganda effective. In the latter connection, the number of unaffected cases attending for examination at the clinics has again been large. It is clear that the idea of "being on the safe side" after exposure to risk is gaining ground. But the main thing, after all, is real prevention by the rebuilding of moral standards.

The figures relating to the work of the V.D. Clinic during 1944 will be found on a subsequent page.

A special V.D. social worker was appointed during the year to trace contacts and follow up defaulters. She is doing most useful work. The number of contacts and defaulters visited was 319 and of these 303 were brought under regular treatment.

Maternity and Child Welfare.

The attendances at the sixteen city welfare centres during 1944 were 75,633 as compared with 66,293 in the previous year. The Wheelwrights Lane Centre was moved during the year to more commodious premises. Attendances at the ante-natal clinics numbered 9,908 as compared with 2,711 the year before. There is great pressure of work at the centres and clinics, and more sessions are necessary at some. The position cannot be met fully until additional medical and nursing appointments are possible.

In response to the Ministry of Health Circular on the subject, particular attention has been paid to the care of illegitimate children and premature infants. Special records are now being kept ensuring more frequent visits.

Day Nurseries.

The nine day nurseries have continued in busy operation during the year. They have made an important contribution to the city's war effort by releasing for industrial work a considerable number of married women whom domestic ties would otherwise have barred. This was the primary function of the nurseries as a war-time foundation. It is necessary now to consider their future. There is no doubt that there is a useful place in the peace-time maternity and child welfare scheme for day nurseries, for they offer valuable medical, nursing and educational care to the children in attendance. Moreover they could provide for the occasional care of children of mothers needing respite from the continual round of domestic work. These matters were under consideration at the year end, and it is likely that the Public Health Committee will propose to keep on most of the present nine nurseries. These will be complementary to the nursery schools and nursery classes to be established or continued in connection with the development plan of the Education Committee.

Stretton Residential Nursery.

The residential nursery at Stretton-on-Dunsmore—seven miles from the city centre—was opened in October, 1944. The property is ideally situated for its purpose and was purchased by the Corporation earlier in the year. The house is being extended and improved, and the work is well under way at the time of writing. When completed the house will accommodate 24 young children and the necessary staff. While the extension work is in progress, accommodation is limited to 6 children and the appropriate staff. The Nursery is for short-stay cases whose mothers have to go into hospital for confinement or treatment and where other arrangements for the care of their children during these times cannot be made. The facilities offered by the Nursery have found a ready acceptance.

Maternity Beds.

There is increasing pressure on the city's maternity beds, due to the higher birth rate and to the greater demand nowadays for institutional confinement—a tendency not unconnected with the difficulties of domestic help. Enemy damage to the local hospitals during 1940-1 has since caused embarrassment from time to time in regard to maternity beds, although the position was greatly mitigated by the Ministry of Health scheme for the evacuation of expectant mothers. The recent termination of this scheme, however, made it necessary to provide further maternity beds in the city. Reference was made in my 1943 Report to the opening of Allesley House, which is administered as a branch of the Gulson Road Municipal Hospital and which provides 25 additional beds for maternity cases. Selected cases are transferred to Allesley House on the third day after confinement both from the maternity unit at the Coventry and Warwickshire Hospital and from that at the Gulson Road Municipal Hospital. It is now projected to open a further maternity ward at the latter hospital.

All these are interim measures which essay to alleviate the present position. But it is clear that provision of maternity beds on a much larger scale is necessary, and it has been decided that the proposed new Municipal General Hospital is to include a separate maternity building to house a unit of 125 beds.

A pleasing event during the year was the endowment of a cot in Allesley House (the cot to be transferred later to the new Municipal General Hospital) by the schoolchildren of the Transvaal. The gift was received by the Corporation through the South African Voluntary Service organisation.

Domiciliary Midwifery.

The domiciliary service of municipal midwives worked smoothly and to full capacity during the year. There were 2,957 cases dealt with in the period under review. The midwives are using gas and air analgesia apparatus more and more in their work to the great benefit of the mothers.

During 1944 the Whitley and Binley District Nursing Association ceased to function after many years of beneficent service. The midwifery work formerly done by the Association has been taken over by the Department, while the district nursing work has passed to the Coventry and Foleshill District Nursing Association.

The Work of the Municipal Hospitals.

During 1944, 3,942 in-patients were dealt with in the wards of the Gulson Road Municipal Hospital and 44,366 out-patients were treated there. It is an imposing record, especially in view of the difficult conditions due to restricted premises and staff. The hospital has notably performed a volume of accident work. The casualty department has been reorganised during the war and in common with other departments of the hospital is rendering a great community service.

In the City Isolation Hospital 1,113 patients were treated during the year as compared with 970 the previous year. Shortage of nursing staff is a problem, and it is fortunate that the absence of any epidemic conditions during the year allowed the number of ward-blocks in use to be restricted.

Hospital Policy.

The need for integration and complete understanding between municipal and voluntary agencies in connection with the reconstruction of the city's hospital services cannot be over-stressed.

The need is there and the goodwill is there. It is a matter of finding an agreed pattern. In this connection the difficulty has never been minimised. Joint discussions have continued usefully during the year. The plan of integration, whatever its final form may be, will need to be evolved, having regard to area considerations as well as to city requirements.

Meanwhile the plans for a new municipal general hospital on the Tile Hill site are proceeding.

Water Supplies.

The water supply in the city has been satisfactory during the year both in quantity and quality. The results of the regular laboratory examinations of water samples are shown in tabular form in the body of the report following. Of all dwelling-houses in the city, 99.3 per cent. are supplied from public water mains—97.4 per cent. direct to the houses and 1.9 per cent. by means of standpipes.

The complete absence of epidemic typhoid following the severe damage to sewers and water-mains in the enemy air attacks of 1940 and 1941 indicates the efficient co-operation accorded by the Water Department in all preventive measures, and underlines the value of routine chlorination of supplies as practised by that Department.

Immediately prior to the war—in August, 1939—Royal Assent was given to the Coventry Corporation Act, 1939, which empowered Coventry to take water from the River Severn at a point near Upton-on-Severn, and to provide the necessary works and pipe-lines. The project was held up by the war. But the growth of the city and the large concentration of vital war industry made some action imperative. Accordingly powers were sought and obtained, by the Coventry Corporation Acts of 1940 and 1942, to take water at Ryton from a nearby tributary of the Avon and to construct the necessary works. This emergency scheme was carried to completion, despite interruptions by enemy action, and the additional water thus obtained successfully obviated what otherwise would have been a critical position. Although temporary measures have thus carried the city through, there is of course the greatest possible need to commence on the Severn scheme as soon as ever possible. I am indebted to the City Water Manager (Mr. N. J. Pugh) for the interesting information which he has supplied.

Sanitary Circumstances.

The work of the sanitary inspectors has again been coloured during the year by conditions which are partly or wholly a legacy of the bombing in 1940 and 1941. Such conditions are domestic overcrowding, damaged houses in occupation, rat infestation of bombed sites and the like.

Considerable difficulty is being experienced due to depletion of staff in the sanitary section, for it has been impossible of late suitably to fill vacancies. In spite of all, however, the varied tasks have been effectively performed.

The sanitary section continues its valuable work in the sphere of food inspection and the supervision of milk supplies. There has been the closest co-operation with the Ministry of Food to ensure compatibility between conservation and safety in the matter of food supplies. The work of meat inspection at the Public Abattoir warrants particular mention.

The combat was carried on against personal uncleanness. The anti-gas cleansing unit attached to the Gulson Road First-Aid Post was used for delousing and cleansing purposes, clothing being dealt with concurrently by steam disinfection at the City Isolation Hospital. Persons dealt with at the cleansing centre during the year numbered 149.

Conclusion.

It is always a great pleasure to refer to the continued support and encouragement accorded me at all times by the Chairman and members of the Public Health Committee. I wish particularly to thank the City Council for allowing me last year to undertake a lecture tour in the U.S.A. at the invitation of the Ministry of Health and the Ministry of Information. In September, 1944, I submitted to the Council a printed report on the impressions of my

tour. It is not necessary, therefore, to repeat them here. I do want to say, however, that I greatly appreciated the honour of my selection for the mission. It is hoped that many of my good American friends will be able to visit Coventry to see at first hand something of the city's great reconstruction problems in which there is such universal interest on the other side of the Atlantic.

I would like finally to thank all members of my staff for their loyal and efficient service during another testing year. Special thanks are due to my Deputy, Dr. Clayton, who carried on so ably during my absence in the United States.

I have the honour to be, Mr. Mayor, Ladies and Gentlemen,

Your obedient servant,

A. MASSEY,

Medical Officer of Health.

The Council House,

Coventry.

July 2nd, 1945.

**Table of Comparative Vital Statistics over a period of eight years
for Coventry, the large Towns, and England and Wales.**

	BIRTH RATE			DEATH RATE			INFANTILE MORTALITY RATE		
	Coventry	126 Large Towns	England and Wales	Coventry	126 Large Towns	England and Wales	Coventry	126 Large Towns	England and Wales
1937	15·7	14·9	14·9	10·4	12·5	12·4	48	62	58
1938	16·5	15·0	15·1	9·5	11·7	11·6	56	57	53
1939	17·7	14·8	15·0	9·4	12·0	12·1	55	53	50
1940	16·4	16·0	14·6	13·3	15·8	14·3	63	61	55
1941	17·1	14·7	14·2	12·8	14·9	12·9	55	71	59
1942	19·3	17·3	15·8	10·2	13·3	11·6	62	59	49
1943	21·2	18·6	16·5	9·6	14·2	12·1	49	58	49
1944	22·8	20·3	17·6	9·0	13·7	11·6	48	52	46

CASES OF INFECTIOUS DISEASE NOTIFIED DURING THE YEAR 1944.

NOTIFIABLE DISEASE.	Total number of cases notified.	NOTIFICATIONS IN AGE GROUPS.						NOTIFICATIONS IN THE VARIOUS WARDS OF THE CITY.																
		AGE GROUPS.						All Saints	Bablake	Cheylesmore	Earlsdon	Foleshill	Grey Friars	Harnall	Hill Fields	Longford	Radford	St. Mary's	St Paul's	Lower Stoke	Upper Stoke	Westwood	Walsgrave	
		Under 1	1 and under 5.	5 and under 15.	15 & under 25.	25 & under 45.	45 & under 65.																	65 & upwards.
Small-pox .. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cholera (C) Plague (P) .. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diphtheria (including Membranous Group)	206	2	52	98	35	17	2	..	15	19	10	7	7	13	11	3	28	30	3	7	11	9	14	19
Erysipelas	66	..	5	3	2	26	4	..	1	4	4	1	4	5	..	2	7	11	..	2	5	5	6	9
Scarlet fever	356	2	76	235	27	14	2	..	9	41	26	17	8	17	5	14	29	57	3	3	36	21	26	44
Typhus fever .. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Enteric fever .. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Relapsing fever (R) .. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued fever (C)	4	..	..	..	1	3	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Puerperal Pyrexia	33	..	..	..	13	20	..	..	3	1	2	..	1	..	2	3	3	3	1	4	2	1	3	4
Cerebro-spinal Meningitis	27	5	4	7	3	5	3	..	..	2	2	..	2	2	3	..	4	3	1	2	1	1	3	1
Acute Anterior Poliomyelitis	2	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..
Ophthalmia Neonatorum	11	11	..	..	..	..	..	..	..	..	..	1	..	1	1	1	1	..	3	..	2	1	..	..
Respiratory Tuberculosis	332	..	..	11	103	151	64	3	6	45	19	13	11	16	14	15	24	49	10	14	17	9	22	48
Other forms of Tuberculosis	35	..	5	6	11	12	1	..	1	6	1	3	1	2	3	3	1	6	1	2	..	..	2	3
Malaria .. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dysentery	6	..	2	3	..	1	..	..	..	..	..	1	..	2	..	..	2	..	..	..	1	..	..	..
Acute Primary Pneumonia	146	14	23	24	12	37	31	5	6	14	8	4	14	8	2	1	13	32	1	6	6	10	7	14
Acute Influenzal Pneumonia	14	..	..	..	..	6	5	3	..	..	..	..	1	1	..	..	7	..	..	..	..	1	..	4
Acute Encephalitis Lethargica .. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Acute Polio-Encephalitis .. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chicken Pox	2707	141	1416	1099	31	19	1	..	52	281	98	80	97	206	51	56	350	462	10	90	176	145	170	383
Measles	457	55	288	112	..	2	..	..	1	65	23	22	1	65	4	2	31	72	1	5	34	12	40	79
Whooping Cough .. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Totals	4402	230	1871	1599	239	313	135	15	94	479	193	149	147	938	96	100	500	725	34	135	291	215	298	608

Tuberculosis.

YEAR	CASES ON REGISTER		CASES NOTIFIED (or brought to notice)		DEATHS			
	Pulmonary	Non-Pulmonary	Pulmonary	Non-Pulmonary	Pulmonary		Non-Pulmonary	
					No.	Rate	No.	Rate
1938	M.	524	75	134	38	0.63	12	0.09
	F.	359	81	97	29		8	
1939	M.	535	88	165	29	0.63	8	0.09
	F.	361	93	99	40		15	
1940	M.	578	115	194	44	0.72	12	0.12
	F.	362	111	102	30		13	
1941	M.	598	122	191	29	0.71	12	0.08
	F.	371	111	85	20		4	
1942	M.	636	124	184	32	0.60	13	0.15
	F.	402	109	131	29		19	
1943	M.	710	142	258	36	0.72	16	0.10
	F.	450	124	137	34		7	
1944	M.	797	140	235	21	0.59	8	0.08
	F.	471	131	121	25		12	

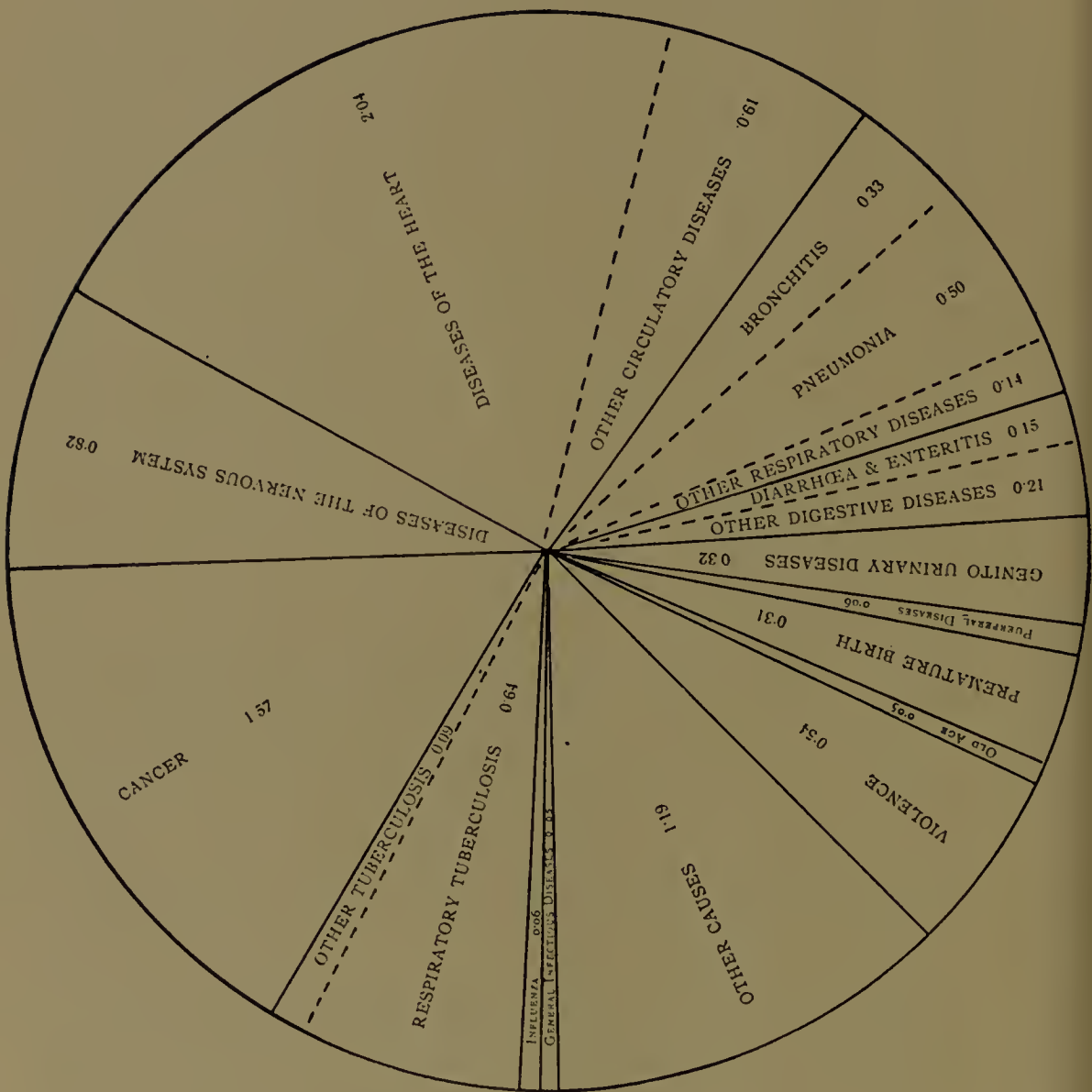
Live Register of Tuberculosis Patients.

	Pulmonary Cases.			Non-Pulmonary Cases.			Total Cases (All Forms).		
	M.	F.	Total	M.	F.	Total	M.	F.	Total
1. No. on Register at 31/12/1943...	710	450	1160	142	124	266	852	574	1426
2. Cases notified (or otherwise coming to knowledge in 1944	235	121	356	21	25	46	256	146	402
3. Cases removed from Register in 1944	148	100	248	23	18	41	171	118	289
4. No. on Register at 31/12/1944...	797	471	1268	140	131	271	937	602	1539

Record of work performed at the V.D. Treatment Centre.

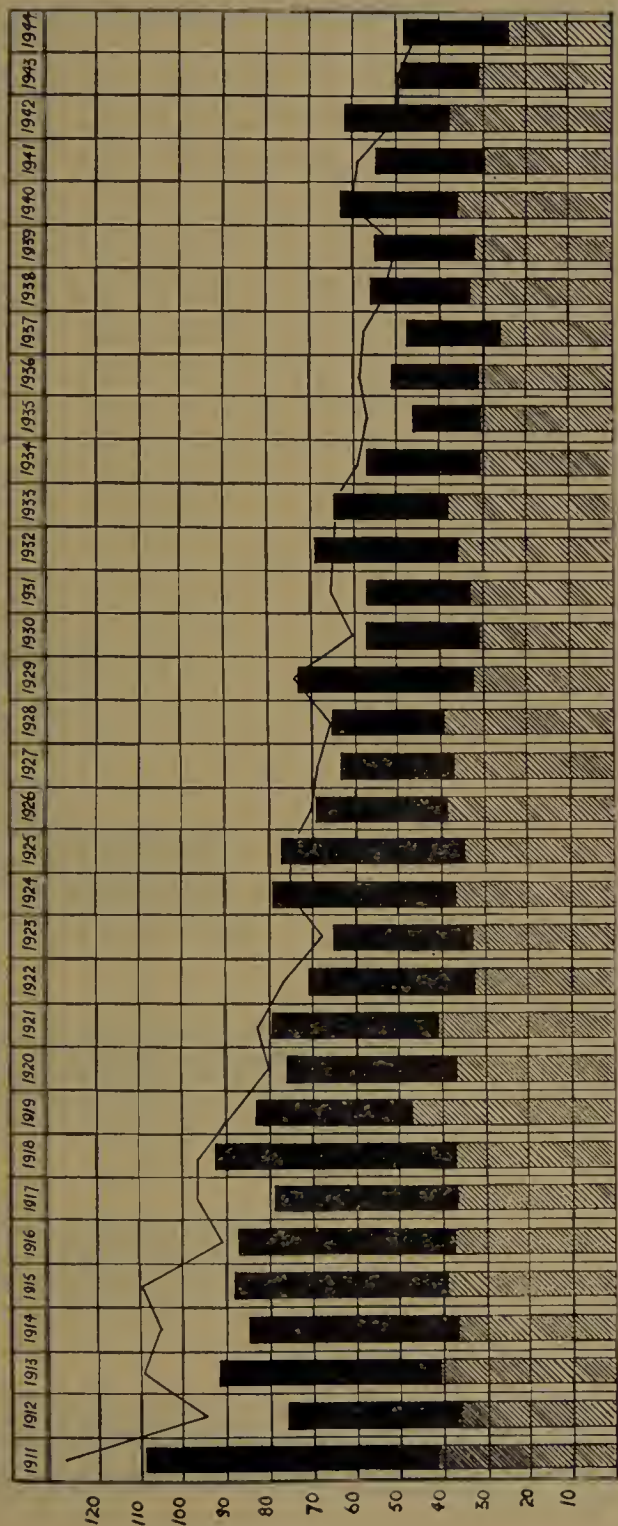
	YEARS						
	1944	1943	1942	1941	1940	1939	1938
No. of New Cases :							
Syphilis	149	127	110	60	60	89	60
Chancre	—	1	1	—	1	—	1
Gonorrhoea	374	340	301	207	233	249	300
Non V.D.	799	653	304	132	216	277	211
Total new Cases	1322	1121	716	399	510	615	571

PROPORTIONS OF DEATHS FROM PRINCIPAL CAUSES TO TOTAL DEATHS, 1944,



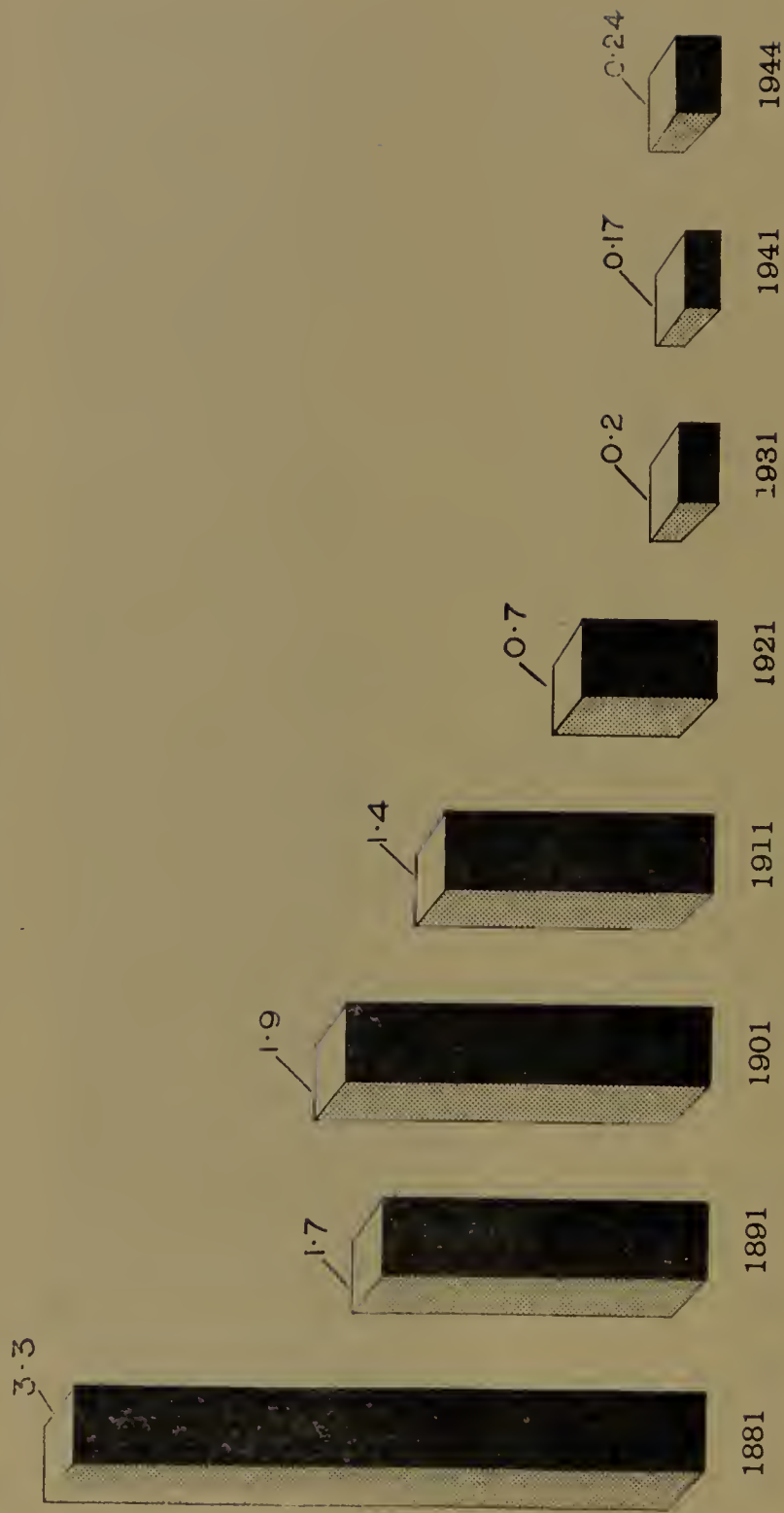
The Total Death Rate from all Causes was 9.7.

CHART SHOWING THE INFANT MORTALITY PER 1,000 BIRTHS IN COVENTRY.



The Infant Death Rate per 1,000 births is represented by the chimneys, the shaded portion of which represents the death rate amongst babies under four weeks of age (i.e., the neo-natal death rate).
 The Infant Death Rate for England and Wales is represented by the line.

DECENNIAL AVERAGE DEATH RATE FROM INFECTIOUS DISEASES 1881-1941
AND FOR 1944.



VITAL STATISTICS OF CITY DURING 1944 AND PREVIOUS YEARS.

Y EAR.	Population estimated to middle of each year.	BIRTHS.			TOTAL DEATHS REGISTERED IN THE CITY.			TRANSFERABLE DEATHS.		NETT DEATHS BELONGING TO THE CITY.			
		Un- corrected Number.	Nett.		Number.	Rate per 1,000 popu- lation.	Rate per 1,000 popu- lation.	of Non- residents registered in the City.	of Resi- dents not registered in the City.	Under 1 Year of Age.		At all Ages.	
			Number	Rate per 1,000 popu- lation.						Number.	Rate per 1,000 Nett Births	Number.	Rate per 1,000 popu- lation.
1938	219,900	3,724	3,624	16.5	2074	9.4	9.4	139	156	203	56.0	2091	9.5
1939	—	—	—	17.7	—	9.3	9.3	100	129	227	54.6	—	9.4
1940	—	—	—	16.4	—	13.0	13.0	288	298	248	63.0	—	13.3
1941	—	—	—	17.1	—	10.1	10.1	142	670	156	54.8	—	12.8
1942	—	—	—	19.3	—	8.0	8.0	59	577	249	62.3	—	10.2
1943	—	—	—	21.2	—	7.3	7.3	57	593	244	49.9	—	9.6
1944	240,000	—	5,466	22.8	1,664	6.9	6.9	81	583	265	48.4	2,166	9.0

CAUSES OF AND AGES AT DEATH, YEAR 1944.

CAUSES OF DEATH.	Total Deaths			Under 1 year	1 and under 5.	5 and under 15.	15 and under 45.	45 and under 65.	65 and upwards.	Deaths in Institutions	
	Males	Females	Total							City	Out of City
1. Typhoid and para-typhoid Fevers .. ..	..	..	..	..	..	..	..	..	..	..	..
2. Cerebro-Spinal Fever	3	2	5	2	1	..	1	1	..	5	..
3. Scarlet Fever .. ..	..	..	..	..	..	..	..	..	..	..	..
4. Whooping Cough	1	1	2	2	..	..	..	..	..	1	..
5. Diphtheria.. ..	3	1	4	..	2	1	1	..	..	4	..
6. Tuberculosis of Respiratory System	91	52	143	..	..	1	91	49	2	8	33
7. Other forms of Tuberculosis	8	12	20	..	6	2	9	2	1	10	5
8. Syphilitic Diseases	8	1	9	1	..	..	2	4	2	..	4
9. Influenza	8	6	14	2	..	1	1	3	7	1	1
10. Measles	5	2	7	2	4	1	..	..	..	1	..
11. Acute Polio-myelitis and Polio-encephalitis .. ..	..	..	..	..	..	..	..	..	..	..	..
12. Acute Infectious Encephalitis .. ..	..	1	1	..	..	..	1	..	..	..	1
13. Cancer of buccal cavity and œsophagus (M), uterus (F)	19	..	19	..	..	..	..	8	11	..	5
.. ..	..	23	23	..	..	..	3	15	5	..	2
14. Cancer of Stomach and Duodenum	28	19	47	..	..	..	5	22	20	..	8
15. Cancer of Breast... ..	..	35	35	..	..	..	5	20	10	..	9
16. Cancer of all other sites..	137	88	225	..	..	1	21	102	101	27	77
17. Diabetes	9	4	13	..	..	..	1	5	7	3	7
18. Intracranial Vascular Lesions	79	80	159	5	2	3	6	44	98	30	28
19. Heart Disease	245	209	454	..	..	1	29	128	296	50	83
20. Other diseases of Circulatory System	73	63	136	..	..	..	3	34	99	5	73
21. Bronchitis	48	25	73	4	1	..	6	30	32	5	17
22. Pneumonia	64	49	113	46	11	1	8	30	17	40	14
23. Other Respiratory Disorders	19	14	33	..	1	..	8	18	6	8	12
24. Ulcer of Stomach or Duodenum	16	3	19	..	..	..	4	9	6	3	12
25. Diarrhœa under 2 years..	21	13	34	34	..	..	..	..	..	19	3
26. Appendicitis	7	7	14	..	..	1	2	7	4	6	8
27. Other digestive disorders	21	27	48	5	2	1	8	20	12	16	16
28. Nephritis	45	18	63	..	..	..	8	23	32	17	22
29. Puerperal and Post-abortion Sepsis .. ..	..	3	3	..	..	..	3	..	..	2	1
30. Other maternal causes .. ..	..	12	12	1	..	..	11	..	..	6	4
31. Premature Birth.. ..	35	36	71	71	..	..	..	..	..	29	15
32. Congenital malformations, Birth Injuries Infant Diseases	39	35	74	70	1	1	2	..	..	19	16
33. Suicide	18	6	24	..	..	..	8	10	6	3	2
34. Road Traffic Accidents ..	92	11	43	..	1	7	18	10	7	23	13
35. Other violent causes ..	30	23	53	5	5	5	7	10	21	19	8
36. All other causes	97	76	173	14	5	9	26	31	88	30	55
TOTALS ..	1209	957	2166	265	42	36	298	635	890	390	554

Vital Statistics. (Historical Summary).

Year.	Houses Inhabited (December)	Vacant.	Popula- tion (Mid-year)	Mortality	Infectious Mortality	Deaths under one year per 1000 born.	Birth Rate
1586	..	..	6,502	..	..	..	..
1643	..	..	9,500	..	..	..	..
1694	..	..	6,711	..	..	..	..
1723	1,934	..	..	..	..	..	..
1748	2,066	..	12,817	..	..	..	..
1801	2,930	..	16,034	..	..	..	..
1811	3,448	*60	17,923	..	..	..	..
1821	3,729	*114	21,448	..	..	..	..
1831	5,444	*421	27,298	..	..	..	..
1841	6,531	*590	31,032	..	..	..	..
Census figures.							
1851	7,783	*151	36,812	27	..	..	..
1861	8,991	*1,026	40,936	25	..	..	..
1871	8,535	*816	37,670	22	..	..	..
1881	9,223	*643	42,111	20	3.3	150	35.4
1891	11,496	*284	52,724	18.5	1.7	142	32.0
1901	15,571	353	69,978	16.96	1.9	153.7	29.8
1911	23,515	95	106,349	13.7	1.4	109.3	28.0
1921	28,355	502†	128,157	11.3	0.7	83.6	23.2
1931	41,275	917‡	167,083	10.1	0.2	67.7	15.7
Ten Years' Average.							
1897	†12,440	73	61,234	16.8	1.8	157	31.3
1911	23,515	95	107,287	13.3	2.08	100.8	26.9
1912	24,590	50	111,166	11.9	1.35	76.1	26.4
1913	25,051	113	115,064	11.4	0.84	91.6	26.0
1914	25,860	99	119,003	11.7	0.70	84.6	26.9
1915	26,667	56	122,982	12.9	1.39	87.8	23.8
1916	27,366	12	127,089	10.9	1.23	87.5	23.5
1917	27,531	15	130,000	10.4	0.47	78.5	20.2
1918	27,735	25	133,000	14.6	0.42	92.5	20.7
1919	27,829	20	136,000	9.3	0.32	82.8	18.2
1920	27,973	48	130,000	9.8	0.35	76.0	25.0
1921	28,355	502‡	128,157	10.2	0.25	79.3	22.1
1922	28,661	72	129,000	10.6	0.34	70.4	18.9
1923	29,414	40	130,500	9.3	0.20	64.9	16.9
1924	29,685	90	132,000	9.6	0.19	79.4	16.0
1925	30,199	83	133,500	10.6	0.30	77.1	16.3
1926	31,034	111	135,000	9.7	0.15	68.9	15.7
1927	32,260	151	139,000	10.2	0.23	63.4	14.8
1928	38,474	175	161,600°	9.6	0.34	65.7	14.4
1929	39,374	750	163,700	12.1	0.63	73.1	14.8
1930	40,519	800	165,800	10.1	0.32	57.0	14.5
1931	41,275	917	168,900	10.0	0.10	57.7	14.8
1932	45,781	1000	182,000°	9.4	0.33	69.7	13.5
1933	47,175	1000	184,500	9.9	0.21	64.5	13.4
1934	48,730	1500	184,900	10.0	0.17	57.1	13.6
1935	50,622	1854	190,000	9.7	0.16	46.5	14.4
1936	54,273	1361	192,360	10.1	0.20	51.8	15.1
1937	57,888	1606	206,500	10.4	0.18	48.5	15.7
1938	61,580	1316	229,900	9.5	0.13	56.0	16.5
1939	—	—	—	9.4	—	54.6	17.7
1940	—	—	—	13.3	0.11	63.0	16.4
1941	—	—	—	12.8	0.21	54.8	17.1
1942	—	—	—	10.2	0.07	62.3	19.3
1943	—	—	—	9.6	0.23	49.9	21.2
1944	65,926	—	240,000	9.0	0.24	48.4	22.8

* This number includes all business offices, whether in dwelling houses or factories, not occupied on the night the Census was taken.

† This number omits all business offices, factories, etc

‡ The Census returns show unoccupied "dwellings"—not houses.

° In these years an extension of the City Boundaries took place.

Table shewing Classification of all Mental Defectives on Register at 1st January, 1945, and how dealt with.

Classification	In Institutions			Under Guardianship			Under Supervision in own homes			Grand Totals		
	M.	F.	Total	M.	F.	Total	M.	F.	Total	M.	F.	Total
Feeble-minded ...	37	66	103	5	10	15	136	87	223	178	163	341
Imbeciles ...	30	29	59	6	3	9	33	26	59	59	58	127
Idiots ...	7	5	12	1	—	1	3	4	7	11	9	20
Moral Imbeciles ...	—	1	1	—	1	1	1	1	2	1	3	4
TOTALS ...	74	101	175	12	14	26	173	118	291	259	233	492

Totals do not include:—

4 (3 males, 1 female) in State Institutions.
 16 (8 " 8 ") on licence from Institutions.

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SANITARY INSPECTION OF DISTRICT.

That portion of the work of the Health Department connected with nuisances in and around dwellings and with property improvements can best be set out in tabular form. The figures in relation to these matters for the year are as follows:—

DRAINAGE AND PAVEMENT.		1943.	1944.
Drains opened and cleansed from obstruction	2362	2037	
Drains provided with efficient traps	23	5	
New drains, inspection and intercepting chambers provided	156	75	
Drains relaid	295	203	
Soil pipes and ventilating shafts improved or repaired	20	19	
Rain water pipes disconnected from the sewer	—	—	
Courts and back yards paved and repaired	40	43	
Sink drains disconnected from the sewer	2	1	
DWELLINGS.			
Floors of dwellings relaid or repaired	225	348	
Dilapidated walls and ceilings repaired	66	151	
Damp walls—Damp courses inserted	—	—	
Repointed or cement rendered	5	11	
Roofs repaired and made weatherproof	209	305	
Dangerous stairs repaired	—	6	
Additional windows provided and others repaired and made to open	1	46	
Defective spouts repaired	101	151	
Houses provided with food stores	8	—	
Existing pantries provided with external ventilation ...	—	—	
Sculleries provided or reconstructed or enlarged ...	—	—	
Wash-houses provided	—	—	
New sinks provided	—	12	
New waste pipes provided and others repaired ...	49	102	
Foul cellars cleansed and defects in drains remedied ...	—	2	
Houses limewashed and cleansed	19	21	
Houses cleansed after infectious disease	1	7	
Verminous houses and furniture disinfected	163	264	
Cases of overcrowding remedied	—	—	
WATER CLOSETS AND URINALS.			
Additional water closets provided	9	9	
Water closets reconstructed	1	6	
Water closets repaired and limewashed	113	89	
Water closets provided with new basins and traps ...	40	60	
Water closet pans replaced with pedestals	125	113	
Defective joints in flush pipes repaired	94	126	
Foul water closet basins and traps cleansed	47	22	
Defective water closet cisterns repaired	361	248	
New flushing cisterns provided	40	48	
Urinals cleansed and reconstructed	—	1	
Urinals abolished	—	—	
PRIVIES, CESSPOOLS, ASHPITS AND DUSTBINS.			
Cesspools abolished	56	12	
Offensive privies or pail closets converted into w.c.'s	6	50	
Offensive privies and pail closets abolished	—	—	
New w.c.'s erected in place of above	—	—	
Offensive ashpits abolished	—	—	
Sanitary dustbins provided in place of above	—	—	
Other houses provided with sanitary dustbins	551	555	

VARIOUS.	1943.	1944.
Smoke nuisances dealt with	1	4
Nuisances from animals kept, abated	12	11
Offensive accumulations removed	2127	697
Courts and back yards cleansed by tenants	78	80
Gipsy tents and caravans removed	21	45
Cowshed improvements	27	29
Dairies reconstructed or improved	—	—
Water supply—additional taps provided	1	—
Poluted wells dispensed with	4	—
Town water supplied in place of well water	4	—
Offensive ditches cleansed	28	18
Miscellaneous	1754	1387
Improvements effected at factories	65	19
Improvements effected at shops and food premises	4	19
Bombed sites cleared	80	35
Drains sealed on bombed sites	134	21
	<u>9,528</u>	<u>7,513</u>

Public Water Supplies.

Results of Analyses of samples of water expressed in parts per 100,000.
SHUSTOKE

Date	Appearance	Dissolved Solids at 180° C.	Oxygen absorbed in 4 hours at 26.7° C.	Chlorides as Cl ₂	As N ₂			Hardness			Free Chlorine	
					Ammonia	Nitrate	Nitrite	Temporary	Permanent	Total	Parts per million	Hours after sample taken
					Free and Saline	Albuminoid						
3. 1.44	Colour very faint yellow. Taste and odour = nil. Iron, Copper and Lead nil. Alkalinity as CaCO ₃ = 12.9. pH value = 7.4	31.0	0.085	3.8	0.001	0.006	0.07	nil	—	16.0	0.04	2½
14. 1.44	Colour faint yellow (5 hazen). Taste and odour = nil. Iron, Copper and Lead nil. Alkalinity as CaCO ₃ = 10.2. pH value = 7.4	26.0	0.120	3.5	0.005	0.005	0.09	nil	—	14.0	0.05	3½
27. 1.44	Colour faint yellow. Taste and odour = nil. Iron, Copper and Lead nil. Alkalinity as CaCO ₃ = 13.3. pH value = 7.3	26.0	0.107	3.2	0.001	0.005	0.09	nil	—	14.0	0.05	3
11. 2.44	Colour very faint yellow (5 hazen). Taste and odour = nil. Iron, Copper and Lead nil. Alkalinity CaCO ₃ = 10.7. pH value = 7.5	27.0	0.106	3.3	0.001	0.004	0.09	nil	—	14.0	0.03	1 day
26. 2.44	Colour faint yellow (5 hazen). Taste and odour = nil. Iron 0.01. Copper, Lead nil. Alkalinity 10.1. pH 7.4	30.0	0.114	3.2	0.001	0.004	0.15	nil	—	13.0	0.04	1½
13. 3.44	Colour faint yellow (5 hazen). Taste and odour = nil. Iron 0.01. Copper, Lead nil. Alkalinity 6.9. pH = 7.4	20.0	0.109	2.5	0.001	0.005	0.09	nil	—	9.5	0.01	3½
23. 3.44	Colour faint yellow (3 hazen). Taste and odour = nil. Iron, Copper and Lead nil. Alkalinity as CaCO ₃ = 7.5. pH value = 7.2	22.0	0.103	2.9	0.001	0.004	0.09	nil	—	11.0	0.06	3
6. 4.44	Colour faint yellow (3 hazen). Taste and odour = nil. Iron, Copper and Lead nil. Alkalinity as CaCO ₃ = 5.5. pH value = 7.1	18.0	0.100	2.3	nil	0.004	0.07	nil	—	8.0	0.03	4
19. 4.44	Colour faint yellow (3 hazen). Taste and odour = nil. Iron, Copper and Lead nil. Alkalinity as CaCO ₃ = 4.7. pH value = 7.0	14.0	0.082	2.1	0.001	0.003	0.03	nil	—	6.5	0.10	3
3. 5.44	Colour faint yellow. Taste and odour = nil. Iron, Copper and Lead nil. Alkalinity as CaCO ₃ = 4.8. pH value = 7.0	17.0	0.080	2.4	0.001	0.004	0.06	nil	—	8.0	0.10	1½
17. 5.44	Colour faint yellow (3 hazen). Taste and odour = nil. Iron, Copper and Lead nil. Alkalinity as CaCO ₃ = 6.3. pH value = 7.2	19.0	0.077	2.8	0.003	0.003	0.06	nil	—	9.0	0.06	4

3. 6.44	Colour faint yellow (3 hazen). Taste and odour= nil. Iron as Fe=0.005. Copper and Lead nil. Alkalinity as CaCO_3 =3.9. pH=7.0	13.0	0.077	1.8	0.001	0.003	0.03	nil	—	—	6.0	0.05	3½
16. 6.44	Colour faint yellow (2 hazen). Taste and odour= nil. Iron, Copper and Lead nil. Alkalinity as CaCO_3 = 10.8. pH value=7.3	27.0	0.063	3.7	nil	0.006	0.06	nil	—	—	15.0	0.02	2
30. 6.44	Colour faint yellow (2 hazen). Taste and odour= nil. Iron, Copper and Lead nil. Alkalinity as CaCO_3 =6.4. pH value=7.1	25.0	0.052	3.6	nil	0.005	0.04	nil	—	—	11.0	0.04	4
13. 7.44	Colour faint yellow (2 hazen). Taste and odour= nil. Iron, Copper and Lead nil. Alkalinity as CaCO_3 =8.7. pH value=7.1	24.0	0.075	3.7	nil	0.006	0.02	nil	—	—	13.0	0.05	2
27. 7.44	Colour faint yellow (3 hazen). Iron, Lead and Copper nil. Taste and odour= nil. Alkalinity as CaCO_3 =7.0. pH value=7.1	21.0	0.073	3.2	0.001	0.006	0.02	nil	—	—	9.5	0.05	4
11. 8.44	Colour sl. yellow (6 hazen). Taste and odour= nil. Iron, Copper and Lead nil. Alkalinity as CaCO_3 =4.4. pH value=7.1	13.0	0.078	2.3	0.001	0.006	0.02	nil	—	—	5.5	0.11	1½
25. 8.44	Colour sl. yellow (7 hazen). Taste and odour= nil. Iron, Copper and Lead nil. Alkalinity as CaCO_3 =4.1. pH value=6.8	16.0	0.098	2.3	0.004	0.006	0.02	nil	—	—	5.5	0.15	5
8. 9.44	Colour sl. yellow (6 hazen). Taste and odour= nil. Iron, Lead and Copper nil. Alkalinity as CaCO_3 =3.9. pH value=7.1	14.0	0.055	2.4	0.004	0.006	0.10	nil	—	—	5.5	0.12	3
22. 9.44	Colour sl. yellow (9 hazen). Taste and odour= nil. Iron, Lead and Copper nil. Alkalinity as CaCO_3 =4.0. pH value=7.0	15.0	0.135	2.5	0.011	0.006	0.02	nil	—	—	6.5	0.14	4
6.10.44	Colour sl. yellow (12 hazen). Taste and odour= sl. earthy. Lead and Copper nil. Iron as Fe=0.008. Alkalinity CaCO_3 =4.9. pH value=7.1	18.0	0.147	2.6	0.012	0.008	0.02	nil	—	—	7.0	0.20	20½
20.10.44	Colour sl. yellow (6 hazen). Taste and odour= nil. Lead and Copper nil. Iron as Fe=0.012. Alkalinity CaCO_3 =6.7. pH value=7.1	20.0	0.121	3.0	0.005	0.008	0.03	Sl. tr.	—	—	9.0	0.05	22½
3.11.44	Colour sl. yellow (7 hazen). Taste and odour= nil. Lead, Copper and Iron nil. Alkalinity as CaCO_3 =6.9. pH value=7.1	20.0	0.117	3.1	0.001	0.005	0.04	nil	—	—	10.0	0.02	23
17.11.44	Colour sl. yellow (6 hazen). Taste and odour= nil. Lead, Iron and Copper nil. Alkalinity as CaCO_3 =6.6. pH value=7.1	22.0	0.118	2.8	0.001	0.007	0.06	nil	—	—	10.0	0.03	21½
1.12.44	Colour sl. yellow (6 hazen). Taste and odour= nil. Iron, Copper and Lead nil. Alkalinity as CaCO_3 =7.4. pH value=7.0	21.0	0.125	2.9	0.001	0.006	0.07	nil	—	—	11.0	0.03	4
14.12.44	Colour sl. yellow (4 hazen). Taste and odour= nil. Iron, Lead and Copper nil. Alkalinity as CaCO_3 =7.1. pH value=7.3	20.0	0.116	2.6	0.001	0.007	0.09	nil	—	—	11.0	0.02	21

RYTON-ON-DUNSMORE

26

Date	Appearance	Dissolved Solids at 180° C.	Oxygen absorbed in 4 hours at 26.7° C.	Chlorides as Cl ₂	As N ₂				Hardness			Free Chlorine	
					Free and Saline	Albuminoid	Nitrate	Nitrite	Temporary	Permanent	Total	Parts per million	Hours after sample taken
3. 1.44	Faint yellow colour (5 hazen). Taste and odour=earthy. Iron, Copper, Lead and Aluminium=nil. Alkalinity as CaCO ₃ =16.8. pH value=7.0	71.0	0.181	5.1	0.300	0.021	0.85	nil	—	—	42.0	0.80	4½
14. 1.44	Colour sl. yellow (8 hazen). Taste=earthy. Odour=sl. earthy. Iron, Copper, Lead and Aluminium=nil. Alkalinity as CaCO ₃ =19.3. pH value=7.2	79.0	0.266	6.0	0.800	0.020	0.35	0.007	—	—	47.0	0.50	5½
27. 1.44	Colour faint yellow. Taste and odour=earthy. Iron, Copper, Lead and Aluminium=nil. Alkalinity as CaCO ₃ =13.1. pH value 7.0	57.0	0.204	3.4	0.083	0.021	1.00	nil	—	—	34.0	0.55	5½
11. 2.44	Colour very faint yellow (5 hazen). Taste and odour=earthy. Iron, Copper, Lead and Aluminium=nil. Alkalinity as CaCO ₃ =15.6. pH value=7.2	74.0	0.209	4.5	0.144	0.010	0.65	nil	—	—	43.0	0.60	1 day
26. 2.44	Colour very faint yellow (2 hazen). Taste=sl. earthy. Odour=very sl. earthy. Iron, Copper, Lead=nil. Alkalinity=14.6. pH value=7.1	55.0	0.192	3.4	0.175	0.013	1.10	nil	—	—	34.0	0.70	3½
13. 3.44	Colour very faint yellow (2 hazen). Taste=sl. earthy. Odour=very sl. earthy. Iron, Copper, Lead=nil. Alkalinity=16.6. pH value=7.1. Aluminium=0.005	64.0	0.188	4.1	0.275	0.016	0.65	nil	—	—	40.0	0.70	6
23. 3.44	Colour faint yellow (3 hazen). Taste and odour=sl. earthy. Iron, Copper and Lead=nil. Aluminium as Al=0.005. Alkalinity as CaCO ₃ =16.8. pH value=7.1	74.0	0.181	4.7	0.602	0.014	0.50	nil	—	—	43.0	0.55	5½
6. 4.44	Colour faint yellow green (5 hazen). Taste=earthy. Odour=sl. earthy. Iron, Copper, Lead and Aluminium=nil. pH value=7.0. Alkalinity as CaCO ₃ =18.6	82.0	0.214	5.8	0.650	0.019	0.45	0.001	—	—	48.0	0.70	6
19. 4.44	Colour faint yellow (5 hazen). Taste and odour=sl. earthy. Iron, Copper, Lead and Aluminium=nil. pH value=7.0. Alkalinity as CaCO ₃ =15.0	64.0	0.174	4.4	0.060	0.011	0.55	nil	—	—	38.0	0.45	6
3. 5.44	Colour faint yellow. Taste and odour=earthy. Iron, Copper and Lead=nil. Aluminium as Al=0.005. Alkalinity as CaCO ₃ =15.2. pH value=7.4	75.0	0.182	4.9	0.001	0.016	0.50	nil	—	—	45.0	0.50	6
17. 5.44	Colour faint yellow (5 hazen). Taste and odour=earthy. Iron, Copper, Lead and Aluminium=nil. Alkalinity as CaCO ₃ =17.4. pH value=7.2	85.0	0.232	5.8	0.021	0.016	0.45	nil	—	—	50.0	1.00	1½

3. 6.44	Colour faint yellow (3 hazen). Taste and odour=sl. earthy. Iron, Copper and Lead nil. Aluminium as Al=0.005. Alkalinity as $\text{CaCO}_3=14.6$. pH value=7.1	87.0	0.195	6.0	0.002	0.022	0.45	nil	—	—	50.0	0.12	6
16. 6.44	Colour faint yellow (4 hazen). Taste and odour=sl. earthy. Iron, Copper, Lead and Aluminium=nil.	98.0	0.229	5.3	0.029	0.019	0.20	nil	—	—	62.0	0.55	4
30.6.44	Alkalinity as $\text{CaCO}_3=18.3$. pH value=7.2 .. Colour faint yellow (4 hazen). Taste and odour=sl. earthy. Iron, Lead, Copper and Aluminium=nil.	98.0	0.193	5.9	0.002	0.023	0.20	nil	—	—	58.0	0.15	6
13. 7.44	Alkalinity as $\text{CaCO}_3=18.0$. pH value=7.2 .. Colour sl. yellow (6 hazen). Taste and odour=sl. earthy. Iron, Copper, Lead and Aluminium=nil.	62.0	0.193	5.3	0.014	0.018	0.35	nil	—	—	34.0	0.40	4
27. 7.44	Alkalinity as $\text{CaCO}_3=12.5$. pH value=6.9 .. Colour faint yellow (4 hazen). Iron, Lead, Copper and Aluminium=nil. Taste and odour=sl. earthy. Alkalinity as $\text{CaCO}_3=18.0$. pH value=7.0 ..	86.0	0.191	5.6	0.002	0.019	0.25	nil	—	—	56.0	0.20	6½
11. 8.44	Colour sl. yellow (5 hazen). Taste and odour=sl. earthy. Iron, Lead, Copper and Aluminium=nil. Alkalinity as $\text{CaCO}_3=20.0$. pH value=7.1 ..	95.0	0.168	5.9	0.002	0.016	0.15	nil	—	—	56.0	0.12	3½
25. 8.44	Colour sl. yellow (6 hazen). Taste and odour=sl. earthy. Iron, Lead, Copper and Aluminium=nil.	100.0	0.203	5.2	0.010	0.018	0.08	nil	—	—	61.0	0.65	6½
8. 9.44	Alkalinity=19.5. pH value=7.0 .. Colour sl. yellow (4 hazen). Taste and odour=sl. earthy. Iron, Lead, Copper and Aluminium=nil. Alkalinity as $\text{CaCO}_3=15.7$. pH value=7.0 ..	75.0	0.226	5.7	0.001	0.017	0.05	nil	—	—	43.0	0.22	4½
22. 9.44	Colour sl. yellow (3 hazen). Taste and odour=sl. earthy. Iron, Lead, Copper and Aluminium=nil. Alkalinity as $\text{CaCO}_3=15.8$. pH value=7.1 ..	77.0	0.186	5.1	0.001	0.015	0.44	nil	—	—	44.0	0.25	6
6.10.44	Colour v. sl. yellow (2 hazen). Taste and odour=sl. earthy. Lead, Copper, Iron and Aluminium=nil. Alkalinity as $\text{CaCO}_3=16.1$. pH value=7.0 ..	82.0	0.192	7.0	0.001	0.014	0.60	nil	—	—	44.0	0.08	22
20.10.44	Colour sl. yellow (2 hazen). Taste and odour=sl. earthy. Lead, Copper, Iron and Aluminium=nil. Alkalinity as $\text{CaCO}_3=17.0$. pH value=7.2 ..	95.0	0.149	6.4	0.001	0.016	0.60	nil	—	—	54.0	0.05	23½
3.11.44	Colour sl. yellow (7 hazen). Taste and odour=sl. earthy. Lead, Copper, Iron and Aluminium=nil. Alkalinity as $\text{CaCO}_3=16.0$. pH value=7.2 ..	68.0	0.208	5.1	0.005	0.015	0.70	nil	—	—	39.0	0.15	21½
17.11.44	Colour sl. yellow (3 hazen). Taste and odour=sl. earthy. Lead, Iron, Copper and Aluminium=nil. Alkalinity as $\text{CaCO}_3=14.3$. pH value=7.0 ..	74.0	0.171	4.2	0.026	0.014	0.75	nil	—	—	38.0	0.75	23½
1.12.44	Colour sl. yellow (3 hazen). Taste and odour=sl. earthy. Lead, Iron, Copper and Aluminium=nil. Alkalinity as $\text{CaCO}_3=12.0$. pH value=7.0 ..	48.0	0.179	3.0	0.007	0.015	0.88	nil	—	—	31.0	0.23	6
14.12.44	Colour sl. yellow (4 hazen). Taste and odour=sl. earthy. Iron, Lead, Copper and Aluminium=nil. Alkalinity=14.2. pH value=7.1 ..	52.0	0.165	3.2	0.081	0.012	0.55	sl. tr.	—	—	34.0	0.45	23

MERIDEN SHAFTS

Date	Appearance	Dissolved Solids at 180° C.	Oxygen absorbed in 4 hours at 26.7° C.	Chlorides as Cl ₂	As N ₂				Hardness			Free Chlorine		
					Ammonia		Albuminoid	Nitrite	Nitrite	Temporary	Permanent	Total	Parts per million	Hours after sample taken
					Free and Saline	Nitrite								
3. 1.44	Bright and clear	35.0	0.002	1.4	nil	0.001	0.15	nil	16.0	7.0	23.0	—	—	
14. 1.44	Bright and clear	36.0	0.002	1.5	nil	0.001	0.15	nil	17.0	7.0	24.0	—	—	
27. 1.44	Bright and clear	34.0	nil	1.4	0.001	0.001	0.15	nil	15.0	7.0	22.0	—	—	
11. 2.44	Bright and clear	34.0	0.003	1.4	nil	nil	0.15	nil	15.0	7.0	22.0	—	—	
26. 2.44	Bright and clear	35.0	0.005	1.3	nil	nil	0.20	nil	16.0	7.0	23.0	—	—	
13. 3.44	Bright and clear	36.0	0.001	1.4	nil	nil	0.15	nil	17.0	7.0	24.0	—	—	
23. 3.44	Bright and clear	35.0	0.007	1.4	nil	0.001	0.15	nil	16.0	7.0	23.0	—	—	
6. 4.44	Bright and clear	36.0	0.002	1.4	nil	0.001	0.15	nil	17.0	7.0	24.0	—	—	
19. 4.44	Bright and clear	34.0	0.002	1.5	nil	0.001	0.15	nil	15.0	7.0	22.0	—	—	
3. 5.44	Bright and clear	34.0	0.002	1.5	nil	0.001	0.15	nil	15.0	7.0	22.0	—	—	
17. 5.44	Bright and clear	34.0	0.002	1.5	nil	nil	0.15	nil	15.0	7.0	22.0	—	—	
3. 6.44	Bright and clear	35.0	0.002	1.4	nil	nil	0.20	nil	16.0	7.0	23.0	—	—	
16. 6.44	Bright and clear	34.0	nil	1.4	nil	0.001	0.15	nil	15.0	7.0	22.0	—	—	
30. 6.44	Bright and clear	34.0	0.002	1.4	nil	0.001	0.15	nil	15.0	7.0	22.0	—	—	
13. 7.44	Bright and clear	34.0	0.003	1.4	nil	0.001	0.16	nil	15.0	7.0	22.0	—	—	
27. 7.44	Bright and clear	35.0	0.004	1.5	nil	nil	0.14	nil	16.0	7.0	23.0	—	—	
11. 8.44	Bright and clear	35.0	0.001	1.5	nil	nil	0.15	nil	16.0	7.0	23.0	—	—	
25. 8.44	Bright and clear	35.0	0.005	1.4	nil	nil	0.14	nil	16.0	7.0	23.0	—	—	
8. 9.44	Bright and clear	35.0	0.006	1.6	nil	0.001	0.22	nil	16.0	7.0	23.0	—	—	
22. 9.44	Bright and clear	36.0	0.006	1.6	nil	0.001	0.16	nil	17.0	7.0	24.0	—	—	
6.10.44	Bright and clear	35.0	0.007	1.5	nil	0.001	0.18	nil	16.0	7.0	23.0	—	—	
20.10.44	Bright and clear	34.0	0.002	1.3	nil	0.001	0.18	nil	15.0	7.0	22.0	—	—	
3.11.44	Bright and clear	34.0	0.009	1.5	nil	0.001	0.16	nil	15.0	7.0	22.0	—	—	
17.11.44	Bright and clear	34.0	0.006	1.5	nil	nil	0.16	nil	15.0	7.0	22.0	—	—	
1.12.44	Bright and clear	35.0	0.001	1.6	nil	0.001	0.14	nil	16.0	7.0	23.0	—	—	
14.12.44	Bright and clear	36.0	0.007	1.5	nil	0.001	0.14	nil	17.0	7.0	24.0	—	—	

GREEN LANE

Date	Appearance	Dissolved Solids at 180° C.	Oxygen absorbed in 4 hours at 26.7° C.	Chlorides as Cl ₂	As N ₂			Hardness			Free Chlorine	
					Ammonia		Nitrite	Temporary	Permanent	Total	Parts per million	Hours after sample taken
					Free and Saline	Albuminoid						
3. 1.44	Bright and clear	50.0	0.007	1.7	0.001	0.002	0.50	18.0	15.0	33.0	0.25	4½
14. 1.44	Bright and clear	48.0	0.008	1.8	0.003	0.002	0.50	18.0	14.0	32.0	0.30	5
27. 1.44	Bright and clear	49.0	0.006	1.7	0.001	0.001	0.50	18.0	15.0	33.0	0.40	5
11. 2.44	Bright and clear	50.0	0.003	1.7	0.002	0.001	0.55	18.0	15.0	33.0	0.20	1 day
26. 2.44	Bright and clear	48.0	0.004	1.7	0.001	0.001	0.60	18.0	14.0	32.0	0.20	3
13. 3.44	Bright and clear	48.0	0.005	1.8	0.001	0.001	0.65	18.0	14.0	32.0	0.30	5½
23. 3.44	Bright and clear	50.0	0.010	1.7	0.002	0.001	0.65	18.0	15.0	33.0	0.35	5
6. 4.44	Bright and clear	50.0	0.008	1.7	0.001	0.001	0.55	18.0	15.0	33.0	0.30	5
19. 4.44	Bright and clear	50.0	0.005	1.8	nil	0.001	0.50	18.0	15.0	33.0	0.20	1½
3. 5.44	Bright and clear	50.0	0.004	1.7	0.001	0.001	0.55	18.0	15.0	33.0	0.30	5½
17. 5.44	Bright and clear	50.0	0.008	1.8	0.001	0.001	0.55	18.0	15.0	33.0	0.25	6
3. 6.44	Bright and clear	50.0	0.007	1.8	0.002	0.001	0.55	18.0	15.0	33.0	0.25	5½
16. 6.44	Bright and clear	48.0	0.007	1.8	0.001	0.001	0.55	18.0	14.0	32.0	0.25	4
30. 6.44	Bright and clear	50.0	0.007	1.8	0.002	0.001	0.55	18.0	15.0	33.0	0.25	5½
13. 7.44	Bright and clear	50.0	0.005	1.9	0.002	0.001	0.55	18.0	15.0	33.0	0.35	3½
27. 7.44	Bright and clear	47.0	0.003	1.8	0.001	0.001	0.60	18.0	13.0	31.0	0.20	6½
11. 8.44	Bright and clear	49.0	0.005	1.9	0.001	0.001	0.55	18.0	15.0	33.0	0.27	3
25. 8.44	Bright and clear	47.0	0.007	1.8	nil	0.001	0.50	18.0	13.0	31.0	0.11	6½
8. 9.44	Bright and clear	52.0	0.011	1.8	0.002	0.001	0.40	19.0	15.0	34.0	0.30	4½
22. 9.44	Bright and clear	52.0	0.010	1.8	0.001	nil	0.45	19.0	15.0	34.0	0.30	5
6.10.44	Bright and clear	50.0	0.011	1.9	0.001	0.001	0.60	18.0	15.0	33.0	0.22	22
20.10.44	Bright and clear	48.0	0.007	1.7	0.001	0.002	0.60	18.0	14.0	32.0	0.20	23
3.11.44	Bright and clear	48.0	0.005	1.8	0.001	0.001	0.65	18.0	14.0	32.0	0.25	3
17.11.44	Bright and clear	49.0	0.011	1.7	0.002	0.001	0.65	18.0	15.0	33.0	0.25	23
1.12.44	Bright and clear	48.0	0.007	1.8	0.001	0.001	0.55	18.0	14.0	32.0	0.20	5½

MOUNT NOD

Date	Appearance	Dissolved Solids at 180° C.	Oxygen absorbed in 4 hours at 26.7° C.	Chlorides as Cl ₂	As N			Hardness		Free Chlorine			
					Ammonia			Temporary	Permanent		Total		
					Free and Saline	Albuminoid	Nitrate						
												Nitrite	
3. 1.44	Bright and clear	30.0	0.003	1.2	nil	0.001	0.20	nil	16.0	7.0	23.0	0.20	4
14. 1.44	Bright and clear	30.0	0.005	1.2	0.001	nil	0.20	nil	16.0	7.0	23.0	0.25	4 1/2
27. 1.44	Bright and clear	31.0	0.002	1.1	nil	nil	0.20	nil	17.0	7.0	24.0	0.12	4 1/2
11. 2.44	Bright and clear	31.0	0.003	1.2	nil	nil	0.20	nil	17.0	7.0	24.0	0.03	1 day
26. 2.44	Bright and clear	30.0	0.004	1.2	nil	nil	0.20	nil	16.0	7.0	23.0	0.05	2 1/2
13. 3.44	Bright and clear	30.0	0.003	1.2	nil	nil	0.20	nil	16.0	7.0	23.0	0.04	5
23. 3.44	Bright and clear	31.0	0.006	1.2	nil	nil	0.20	nil	17.0	7.0	24.0	0.30	4 1/2
6. 4.44	Bright and clear	31.0	0.003	1.2	nil	nil	0.20	nil	17.0	7.0	24.0	0.30	5 1/2
21. 4.44	Bright and clear	31.0	0.002	1.2	nil	nil	0.20	nil	16.0	7.0	23.0	0.25	4 1/2
3. 5.44	Bright and clear	31.0	0.002	1.2	nil	nil	0.20	nil	17.0	7.0	24.0	0.02	5 1/2
17. 5.44	Bright and clear	30.0	0.003	1.2	nil	nil	0.20	nil	17.0	7.0	24.0	0.04	3 1/2
3. 6.44	Bright and clear	31.0	0.004	1.3	nil	nil	0.20	nil	17.0	7.0	24.0	0.05	5
16. 6.44	Bright and clear	31.0	0.004	1.2	nil	nil	0.20	nil	17.0	7.0	24.0	0.07	5
30. 6.44	Bright and clear	31.0	0.003	1.2	nil	nil	0.20	nil	17.0	7.0	24.0	0.03	3
13. 7.44	Bright and clear	31.0	0.002	1.2	nil	nil	0.22	nil	17.0	7.0	24.0	0.17	6
27. 7.44	Bright and clear	31.0	0.002	1.2	nil	nil	0.20	nil	17.0	7.0	24.0	0.16	3
11. 8.44	Bright and clear	29.0	nil	1.3	0.001	nil	0.20	nil	16.0	6.0	22.0	0.25	6
25. 8.44	Bright and clear	31.0	0.008	1.2	nil	nil	0.18	nil	17.0	7.0	24.0	0.30	4
8. 9.44	Bright and clear	31.0	0.006	1.3	nil	nil	0.20	nil	17.0	7.0	25.0	0.25	5 1/2
22. 9.44	Bright and clear	29.0	0.007	1.2	nil	nil	0.20	nil	16.0	6.0	22.0	0.25	21 1/2
6. 10.44	Bright and clear	29.0	0.006	1.2	nil	nil	0.20	nil	16.0	6.0	22.0	0.25	23
20. 10.44	Bright and clear	30.0	0.005	1.2	nil	nil	0.26	nil	16.0	7.0	23.0	0.05	22 1/2
3. 11.44	Bright and clear	30.0	0.005	1.3	nil	nil	0.22	nil	16.0	7.0	23.0	0.07	22 1/2
17. 11.44	Bright and clear	29.0	0.005	1.2	0.001	0.001	0.22	nil	16.0	6.0	22.0	0.10	22 1/2
1. 12.44	Bright and clear	29.0	0.001	1.3	nil	nil	0.20	nil	16.0	6.0	22.0	0.08	5 1/2
14. 12.44	Bright and clear	28.0	0.006	1.2	nil	nil	0.20	nil	16.0	6.0	22.0	0.15	22 1/2

BROWNSHILL GREEN

Date	Appearance	Dissolved Solids at 180° C.	Oxygen absorbed in 4 hours at 26.7° C.	As N ₂				Hardness		Free Chlorine			
				Chlorides as Cl ₂	Free and Saline	Albuminoid	Nitrate	Nitrite	Temporary	Permanent	Total	Parts per million	Hours after sample taken
3. 1.44	Bright and clear	31.0	0.003	1.6	nil	nil	0.40	nil	15.0	7.0	22.0	0.20	5
14. 1.44	Bright and clear	31.0	0.003	1.6	nil	nil	0.45	nil	15.0	7.0	22.0	0.25	4 1/2
27. 1.44	Bright and clear	31.0	0.005	1.6	nil	nil	0.40	nil	15.0	7.0	22.0	0.35	3 1/2
11. 2.44	Bright and clear	31.0	0.006	1.6	nil	nil	0.40	nil	15.0	7.0	22.0	0.35	5
26. 2.44	Bright and clear	30.0	0.008	1.6	nil	nil	0.45	nil	14.0	7.0	21.0	0.35	3
13. 3.44	Bright and clear	31.0	0.006	1.6	nil	nil	0.45	nil	15.0	7.0	22.0	0.30	4 1/2
23. 3.44	Bright and clear	30.0	0.006	1.6	nil	nil	0.45	nil	14.0	7.0	21.0	0.25	4 1/2
6. 4.44	Bright and clear	30.0	0.006	1.6	nil	nil	0.40	nil	14.0	7.0	21.0	0.50	4
21. 4.44	Bright and clear	31.0	0.004	1.6	nil	nil	0.45	nil	15.0	7.0	22.0	0.30	5
18. 5.44	Bright and clear	30.0	0.009	1.6	nil	nil	0.45	nil	14.0	7.0	21.0	0.45	5
3. 6.44	Bright and clear	30.0	0.005	1.6	nil	nil	0.40	nil	14.0	7.0	21.0	0.25	1 1/2
16. 6.44	Bright and clear	30.0	0.009	1.7	nil	nil	0.45	nil	14.0	7.0	21.0	0.25	1 1/2
30. 6.44	Bright and clear	30.0	0.001	1.7	nil	0.001	0.45	nil	14.0	7.0	21.0	0.25	3 1/2
27. 7.44	Bright and clear	30.0	0.004	1.7	0.001	nil	0.40	nil	14.0	7.0	21.0	0.55	2
11. 8.44	Bright and clear	29.0	0.001	1.6	nil	nil	0.35	nil	14.0	7.0	21.0	0.37	1
25. 8.44	Bright and clear	30.0	0.004	1.7	nil	nil	0.40	nil	14.0	7.0	21.0	0.25	1
8. 9.44	Bright and clear	30.0	0.009	1.6	nil	nil	0.40	nil	14.0	7.0	21.0	0.40	1 1/2
22. 9.44	Bright and clear	30.0	0.003	1.7	nil	nil	0.55	nil	14.0	7.0	21.0	0.30	3 1/2
6.10.44	Bright and clear	29.0	0.006	1.6	nil	nil	0.40	nil	14.0	7.0	21.0	0.25	2
20.10.44	Bright and clear	30.0	0.002	1.6	0.001	nil	0.40	nil	14.0	7.0	21.0	0.12	3
3.11.44	Bright and clear	30.0	0.004	1.7	nil	0.001	0.45	nil	14.0	7.0	21.0	0.08	21
17.11.44	Bright and clear	30.0	0.003	1.7	nil	nil	0.45	nil	14.0	7.0	21.0	0.20	3
1.12.44	Bright and clear	30.0	0.002	1.7	nil	0.001	0.35	nil	14.0	7.0	21.0	0.15	1
14.12.44	Bright and clear	30.0	0.004	1.8	0.001	0.001	0.40	nil	14.0	7.0	21.0	0.15	4 1/2

COVENTRY COLLIERY

Date	Appearance	Dissolved Solids at 180° C.	Oxygen absorbed in 4 hours at 26.7° C.	Chlorides as Cl ₂	As N ₂				Hardness		Free Chlorine			
					Ammonia		Albuminoid	Nitrate	Nitrite	Temporary	Permanent	Total	Parts per million	Hours after sample taken
					Free and Saline	Total								
3. 1.44	Bright and clear	44.0	0.006	2.1	nil	0.001	0.30	nil	26.0	11.0	37.0	—	—	
14. 1.44	Bright and clear	46.0	0.005	2.1	nil	0.001	0.30	nil	27.0	11.0	38.0	—	—	
27. 1.44	Bright and clear	44.0	0.009	2.0	nil	0.001	0.30	nil	26.0	11.0	37.0	—	—	
11. 2.44	Bright and clear	44.0	0.006	2.0	nil	nil	0.30	nil	26.0	11.0	37.0	—	—	
26. 2.44	Bright and clear	46.0	0.008	2.0	nil	nil	0.30	nil	27.0	11.0	38.0	—	—	
13. 3.44	Bright and clear	44.0	0.010	2.1	nil	nil	0.35	nil	26.0	11.0	37.0	—	—	
23. 3.44	Bright and clear	44.0	0.009	2.0	nil	0.001	0.30	nil	26.0	11.0	37.0	—	—	
6. 4.44	Bright and clear	46.0	0.006	2.0	nil	0.001	0.25	nil	27.0	11.0	38.0	—	—	
21. 4.44	Bright and clear	46.0	0.009	2.1	nil	0.001	0.25	nil	27.0	11.0	38.0	—	—	
4. 5.44	Bright and clear	44.0	0.009	2.0	nil	nil	0.25	nil	26.0	11.0	37.0	—	—	
18. 5.44	Bright and clear	44.0	0.009	2.0	nil	0.001	0.25	nil	26.0	11.0	37.0	—	—	
3. 6.44	Bright and clear	47.0	0.007	2.2	nil	0.001	0.25	nil	28.0	11.0	39.0	—	—	
16. 6.44	Bright and clear	44.0	0.009	2.1	nil	0.001	0.25	nil	26.0	11.0	37.0	—	—	
30. 6.44	Bright and clear	44.0	0.005	2.1	nil	0.001	0.30	nil	26.0	11.0	37.0	—	—	
13. 7.44	Bright and clear	44.0	0.010	2.1	nil	nil	0.28	nil	26.0	11.0	37.0	—	—	
27. 7.44	Bright and clear	44.0	0.007	2.1	nil	nil	0.25	nil	26.0	11.0	37.0	—	—	
11. 8.44	Bright and clear	43.0	0.008	2.0	nil	0.001	0.20	nil	25.0	11.0	36.0	—	—	
25. 8.44	Bright and clear	43.0	0.009	2.0	nil	0.001	0.26	nil	25.0	11.0	36.0	—	—	
8. 9.44	Bright and clear	39.0	0.009	1.5	nil	0.001	0.20	nil	23.0	10.0	33.0	—	—	
22. 9.44	Bright and clear	40.0	0.007	1.7	nil	0.001	0.20	nil	24.0	10.0	34.0	—	—	
6.10.44	Bright and clear	45.0	0.006	2.2	nil	0.001	0.20	nil	27.0	11.0	38.0	—	—	
20.10.44	Bright and clear	45.0	0.005	2.1	nil	0.001	0.30	nil	27.0	11.0	38.0	—	—	
3.11.44	Bright and clear	39.0	0.004	1.9	nil	0.001	0.26	nil	23.0	10.0	33.0	—	—	
17.11.44	Bright and clear	39.0	0.010	1.8	nil	0.002	0.20	nil	23.0	10.0	33.0	—	—	
1.12.44	Bright and clear	39.0	0.009	1.8	nil	0.001	0.17	nil	23.0	10.0	33.0	—	—	
14.12.44	Bright and clear	41.0	0.009	2.0	nil	0.001	0.19	nil	24.0	11.0	35.0	—	—	

Date	Appearance	Dissolved Solids at 180° C.	Oxygen absorbed in 4 hours at 26.7° C.	Chlorides as Cl ₂	As N ₂			Hardness			Free Chlorine	
					Ammonia		Nitrite	Temporary	Permanent	Total	Parts per million	Hours after sample taken
					Free and Saline	Albuminoid						
3. 1.44	Bright and clear	45.0	0.004	1.7	0.001	0.001	0.45	18.0	15.0	33.0	0.25	4½
14. 1.44	Bright and clear	47.0	0.003	1.7	nil	0.001	0.50	19.0	15.0	34.0	0.20	5
27. 1.44	Bright and clear	45.0	0.011	1.7	nil	nil	0.50	18.0	15.0	33.0	0.25	2½
11. 2.44	Bright and clear	45.0	0.007	1.7	nil	nil	0.45	18.0	15.0	33.0	0.30	4½
26. 2.44	Bright and clear	44.0	0.009	1.7	nil	nil	0.50	18.0	14.0	32.0	0.25	2½
13. 3.44	Bright and clear	45.0	0.008	1.7	nil	nil	0.45	18.0	15.0	33.0	0.25	4
23. 3.44	Bright and clear	45.0	0.003	1.8	nil	0.001	0.45	18.0	15.0	33.0	0.45	4
6. 4.44	Bright and clear	45.0	0.005	1.7	nil	nil	0.45	18.0	15.0	33.0	0.30	4½
21. 4.44	Bright and clear	45.0	0.009	1.8	nil	nil	0.45	18.0	15.0	33.0	0.10	4
4. 5.44	Bright and clear	44.0	0.004	1.8	nil	nil	0.45	18.0	14.0	32.0	0.20	3
18. 5.44	Bright and clear	44.0	0.003	1.8	nil	nil	0.45	18.0	14.0	32.0	0.20	4½
3. 6.44	Bright and clear	45.0	0.002	1.8	nil	nil	0.45	18.0	15.0	33.0	0.25	1
16. 6.44	Bright and clear	45.0	0.011	1.8	nil	nil	0.45	18.0	15.0	33.0	0.25	1
30. 6.44	Bright and clear	45.0	0.001	1.8	nil	nil	0.45	18.0	15.0	33.0	0.25	3
13. 7.44	Bright and clear	44.0	0.004	1.9	nil	nil	0.45	18.0	14.0	32.0	0.20	3
27. 7.44	Bright and clear	44.0	0.002	1.8	nil	nil	0.50	18.0	14.0	32.0	0.20	1½
11. 8.44	Bright and clear	44.0	0.009	1.9	nil	nil	0.20	18.0	14.0	32.0	0.24	2
25. 8.44	Bright and clear	45.0	0.006	1.8	nil	nil	0.45	18.0	15.0	33.0	0.20	1
8. 9.44	Bright and clear	45.0	0.007	1.9	nil	nil	0.45	18.0	15.0	33.0	0.30	1
22. 9.44	Bright and clear	45.0	0.006	1.8	0.001	nil	0.45	18.0	15.0	33.0	0.17	3½
6.10.44	Bright and clear	45.0	0.009	1.9	nil	nil	0.50	18.0	15.0	33.0	0.30	1
20.10.44	Bright and clear	44.0	0.003	1.8	nil	nil	0.45	18.0	14.0	32.0	0.20	3
3.11.44	Bright and clear	45.0	0.010	1.7	nil	nil	0.50	18.0	15.0	33.0	0.20	3
17.11.44	Bright and clear	45.0	0.006	1.9	nil	nil	0.50	18.0	15.0	33.0	0.25	3½
1.12.44	Bright and clear	44.0	0.004	2.0	nil	nil	0.40	18.0	14.0	32.0	0.20	1½
14.12.44	Bright and clear	45.0	0.005	1.9	nil	nil	0.45	18.0	15.0	33.0	0.25	4

WATERY LANE

Date	Appearance	Dissolved Solids at 180° C.	Oxygen absorbed in 4 hours at 26.7° C.	Chlorides as Cl ₂	As N ₂				Hardness			Free Chlorine	
					Ammonia			Nitrite	Temporary	Permanent	Total	Parts per million	Hours after sample taken
					Free and Saline	Albuminoid	Nitrate						
3. 1.44	Bright and clear	36.0	0.004	1.7	nil	0.001	0.20	nil	20.0	10.0	30.0	0.20	6½
14. 1.44	Bright and clear	38.0	0.007	1.7	nil	0.001	0.20	nil	21.0	10.0	31.0	0.07	6
27. 1.44	Bright and clear	38.0	0.008	1.6	nil	nil	0.20	nil	21.0	10.0	31.0	0.30	4½
11. 2.44	Bright and clear	41.0	0.002	1.9	nil	nil	0.20	nil	16.0	11.0	27.0	0.35	5½
26. 2.44	Bright and clear	41.0	0.004	1.9	nil	nil	0.20	nil	16.0	11.0	27.0	0.20	3½
13. 3.44	Bright and clear	38.0	0.003	1.7	nil	nil	0.20	nil	21.0	10.0	31.0	0.17	5½
23. 3.44	Bright and clear	38.0	0.003	1.7	nil	nil	0.20	nil	21.0	10.0	31.0	0.15	4
6. 4.45	Bright and clear	38.0	0.002	1.8	nil	nil	0.20	nil	21.0	10.0	31.0	0.10	4½
4. 5.44	Bright and clear	38.0	0.006	1.8	nil	nil	0.20	nil	21.0	10.0	31.0	0.30	1
18. 5.44	Bright and clear	38.0	0.005	1.8	nil	nil	0.20	nil	21.0	10.0	31.0	0.35	5½
3. 6.44	Bright and clear	38.0	0.003	1.8	nil	nil	0.20	nil	21.0	10.0	31.0	0.25	2
16. 6.44	Bright and clear	38.0	0.004	1.9	nil	nil	0.20	nil	21.0	10.0	31.0	0.20	2
30. 6.44	Bright and clear	38.0	nil	1.9	nil	nil	0.20	nil	21.0	10.0	31.0	0.10	4
27. 7.44	Bright and clear	42.0	0.004	2.0	nil	nil	0.15	nil	17.0	11.0	28.0	0.20	2½
11. 8.44	Bright and clear	38.0	0.006	1.8	nil	nil	0.50	nil	21.0	10.0	31.0	0.20	1
25. 8.44	Bright and clear	38.0	0.004	1.8	nil	nil	0.18	nil	21.0	10.0	31.0	0.25	2
8. 9.44	Bright and clear	42.0	0.006	1.9	nil	nil	0.16	nil	17.0	11.0	28.0	0.30	2
22. 9.44	Bright and clear	38.0	0.006	1.9	0.001	nil	0.18	nil	21.0	10.0	31.0	0.06	4½
6.10.44	Bright and clear	38.0	0.004	1.9	nil	nil	0.20	nil	21.0	10.0	31.0	0.15	2
20.10.44	Bright and clear	38.0	0.002	1.8	nil	nil	0.22	nil	21.0	10.0	31.0	0.10	3
3.11.44	Bright and clear	38.0	0.003	1.6	nil	nil	0.22	nil	21.0	10.0	31.0	0.10	3½
17.11.44	Bright and clear	38.0	0.005	1.9	nil	0.001	0.30	nil	21.0	10.0	31.0	0.03	3½
1.12.44	Bright and clear	38.0	0.007	2.0	nil	nil	0.17	nil	21.0	10.0	31.0	0.10	1½
14.12.44	Bright and clear	38.0	0.002	1.9	nil	nil	0.18	nil	21.0	10.0	31.0	0.03	5

WHITLEY

Date	Appearance	Dissolved Solids at 180° C.	Oxygen absorbed in 4 hours at 26.7° C.	Chlorides as Cl ₂	As N ₂				Hardness			Free Chlorine		
					Ammonia			Nitrate	Nitrite	Temporary	Permanent	Total	Parts per million	Hours after sample taken
					Free and Saline	Albuminoid	Nitrite							
3. 1.44	Bright and clear	75.0	0.010	4.9	nil	nil	0.90	nil	27.0	26.0	53.0	—	—	
14. 1.44	Bright and clear	77.0	0.010	4.6	nil	nil	0.80	nil	28.0	27.0	55.0	—	—	
27. 1.44	Bright and clear	75.0	0.011	4.5	nil	0.001	0.80	nil	27.0	26.0	53.0	—	—	
11. 2.44	Bright and clear	77.0	0.012	4.5	nil	nil	0.80	nil	28.0	27.0	55.0	—	—	
26. 2.44	Bright and clear	75.0	0.016	4.5	nil	0.001	0.90	nil	27.0	26.0	53.0	—	—	
13. 3.44	Bright and clear	77.0	0.014	4.5	nil	nil	0.90	nil	28.0	27.0	55.0	—	—	
23. 3.44	Bright and clear	75.0	0.009	4.5	nil	0.001	0.90	nil	27.0	26.0	53.0	—	—	
6. 4.44	Bright and clear	77.0	0.009	4.6	nil	0.001	0.90	nil	28.0	27.0	55.0	—	—	
21. 4.44	Bright and clear	77.0	0.014	4.7	nil	0.001	0.80	nil	28.0	27.0	55.0	—	—	
4. 5.44	Bright and clear	75.0	0.011	4.5	nil	0.001	0.90	nil	27.0	26.0	53.0	—	—	
18. 5.44	Bright and clear	75.0	0.010	4.6	nil	0.001	0.90	nil	27.0	26.0	53.0	—	—	
3. 6.44	Bright and clear	77.0	0.010	4.6	nil	0.001	0.90	nil	28.0	27.0	55.0	—	—	
16. 6.44	Bright and clear	77.0	0.014	4.8	nil	0.001	0.90	nil	28.0	27.0	55.0	—	—	
30. 6.44	Bright and clear	77.0	0.006	4.6	nil	0.001	0.90	nil	28.0	27.0	55.0	—	—	
13. 7.44	Bright and clear	77.0	0.010	4.7	nil	nil	0.90	nil	27.0	27.0	54.0	—	—	
27. 7.44	Bright and clear	77.0	0.011	4.7	nil	0.001	0.80	nil	28.0	27.0	55.0	—	—	
11. 8.44	Bright and clear	77.0	0.012	4.6	nil	nil	0.90	nil	28.0	27.0	55.0	—	—	
25. 8.44	Bright and clear	77.0	0.015	4.6	nil	0.001	0.90	nil	28.0	27.0	55.0	—	—	
22. 9.44	Bright and clear	77.0	0.012	4.8	nil	nil	0.70	nil	28.0	27.0	55.0	0.14	2½	
6.10.44	Bright and clear	77.0	0.010	4.8	nil	0.001	0.90	nil	28.0	27.0	55.0	—	—	
20.10.44	Bright and clear	75.0	0.009	4.6	nil	0.001	1.00	nil	27.0	26.0	53.0	—	—	
14.12.44	Bright and clear	77.0	0.013	4.9	nil	0.001	0.75	nil	28.0	27.0	55.0	—	—	

